

FORM PTO-1449 U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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ATTY. DOCKET NO.

500.43451X00

SERIAL NO.

10/766,015

APPLICANT

A. KANO, et al

FILING DATE

January 29, 2004

GROUP

2655

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D. IF APPROP
W.C.	6 2 1 9 7 5 3	4/01	Richardson			
	6 7 7 2 2 8 7	8/04	Uchiyama et al			
	6 6 8 4 2 8 2	1/04	Kocis			
2 0 0 3	0 1 8 2 5 0 2	9/03	Kleiman et al			
2 0 0 4	0 2 6 8 0 6 9	12/04	Satoyama et al			
2 0 0 4	0 2 4 3 3 8 6	12/04	Stolowitz et al			
2 0 0 3	0 2 0 4 6 7 1	10/03	Matsunami et al			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

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*Sh. N/A*

DATE CONSIDERED

8-19-05

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(Form PTO-1449 [6-4])

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D. IF APPROP
A.N.	200407945	10/02	Fox et al			
A.N.	2003063639	8/03	Baum et al			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


EXAMINER

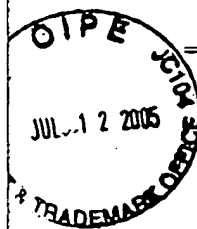
A.N.

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<i>A.N.</i>	2 0 0 3	0	1	1	0	3	3	0	06/03	Fujie et al			
	2 0 0 3	0	2	2	1	0	6	1	11/03	El-Batal et al			
	2 0 0 3	0	2	1	2	8	5	9	11/03	Ellis et al			
	2 0 0 2	0	0	1	9	8	9	7	2/02	Cruyningen			
<i>A.N.</i>	2 0 0 4	0	0	1	0	6	6	0	1/04	Konshak et al			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>A.N.</i>	EMC 2-Gigabit Disk-Array Enclosure EMC Corporation (DAE2), FC and ATA Models, Hardware Ref P/N 014003048, Rev A02.
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A circular stamp from the Office of Intellectual Property (OIP). The text "OIP" is at the top, "JUN 29 2005" is in the center, and "PATENT & TRADEMARK OFFICE" is at the bottom. The stamp is partially obscured by a horizontal line.

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

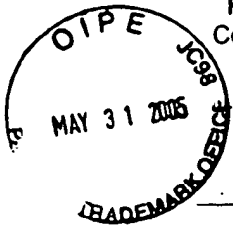
**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


Sl. V<sup>th</sup>

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A.C.V.	6 6 3 6 9 3 4	10/03	Linnell			
	5 9 5 1 6 9 1	09/99	Ng et al			
	6 1 1 5 7 9 7	09/00	Kanda et al			
	6 1 7 3 3 6 0	1/01	Beardsley et al			
	6 5 5 3 4 0 8	4/03	Merrell et al			
	6 6 0 6 6 9 0	8/03	Padovano			
A.C.V.	6 7 7 2 3 6 5	8/04	Obara			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
													YES	NO
ACV.		0	8	4	4	5	6	1	5/98	Katsuragi et al	—	—		

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	500.43451CX1	10/766,015
	APPLICANT A. KANO, et al	
	FILING DATE January 29, 2004	GROUP 2655

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Shi</i>	6 1 0 8 7 4 8	08/00	Ofek et al			
	6 5 1 0 4 9 1	1/03	Franklin et al			
	6 6 5 1 1 3 7	11/03	Baek et al			
	6 7 0 8 2 3 2	03/04	Obara et al			
<i>Shi</i>	5 5 4 6 5 5 8	8/96	Jacobson et al			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
1 3 1 5 0 7 4	5/03	European			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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<i>A. N.</i>	2 0 0 4	0	1	9	3	7	6	0	9/04	Matsunami et al			
	2 0 0 4	0	1	9	9	5	1	5	10/04	Penny et al			
	2 0 0 2	0	1	3	8	7	0	5	9/02	Suzuki et al			
	2 0 0 3	0	2	2	1	0	7	7	11/03	Ohno et al			
	2 0 0 4	0	0	1	0	6	6	2	1/04	Aruga			
<i>A. N.</i>	2 0 0 4	0	1	1	7	5	1	7	6/04	Beauchamp et al			

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<i>A. N.</i>	2 0 0 4	0 1 2 8 6 2 7	7/04	Zayas		
<i>↓</i>	2 0 0 3	0 0 9 7 6 0 7	5/03	Bessire		
<i>↓</i>	2 0 0 4	0 0 7 8 7 0 7	4/04	Apperley et al		
<i>↓</i>	2 0 0 4	0 0 7 3 7 4 7	4/04	Lu		
<i>A. N.</i>	2 0 0 4	0 1 7 7 2 1 8	9/04	Meehan et al		

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<i>AcN</i>	5 6 0 3 0 0 3	2/97	Akizawa et al			
	5 8 3 8 8 9 1	11/98	Mizuno et al			
	5 8 6 7 7 3 6	2/99	Jantz			
	5 8 8 4 0 9 8	3/99	Mason, Jr.			
	6 2 1 9 7 5 2	4/01	Sekido			
	6 2 2 3 2 4 9	4/01	Kato et al			
	6 5 4 9 9 7 8	5/03	Mansur et al			
	6 6 4 0 2 7 8	10/03	Nolan et al			
	6 6 8 4 2 9 5	1/04	Fujimoto et al			
	6 7 4 5 2 8 7	6/04	Fujimoto et al			
<i>AcM</i>	6 2 0 1 6 9 2	3/01	Gamble et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
						YES	NO
<i>AcN</i> 2 0 0 2	3 3 3 9 5 4	11/02	Japan				
<i>AcN</i> 2 0 0 4	1 7 8 5 5 7	6/04	Japan				

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>A. K.</i>	6 6 2 8 5 1 3	9/03	Gallagher et al		1	
	6 8 3 1 8 3 9	12/04	Bovell			
	6 0 6 1 7 5 0	5/00	Beardsley et al			
	6 7 6 3 4 3 6	7/04	Gabber et al			
	6 7 9 2 4 8 6	9/04	Hanan et al			
	6 1 3 7 6 7 9	10/00	Chang			
	6 3 5 1 3 7 5	2/02	Hsieh et al			
	6 4 8 4 2 3 6	11/02	Fujimoto et al			
	6 4 8 4 2 6 9	11/02	Kopylovitz			
<i>A. K.</i>	6 7 2 8 9 2 2	4/04	Sundaram et al			
	5 4 7 5 8 1 4	12/95	Tomimitsu			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
<i>A. K.</i> 0 2 1 8 8 3 5		Japan			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>S.C.V.</i>	6 5 0 2 1 0 8	12/02	Day, III, et al			
	6 6 5 8 5 9 2	12/03	Cohen et al			
	2 0 0 0 7 4 6 9	1/02	Taketa et al			
<i>S.C.V.</i>	2 0 0 4 0 4 1 3	4/02	Okada et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
						YES	NO
<i>S.C.V.</i>	2 1 4 2 6 5 0	5/01	Japan				
<i>S.C.V.</i>	2 1 5 0 7 4 6	5/02	Japan				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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2 0 0 3	0 0 9 7 5 0 4	5/03	Oeda et al			
2 0 0 3	0 1 1 5 4 3 7	6/03	Tomita			
2 0 0 3	0 1 4 5 1 6 7	7/03	Tomita			
2 0 0 3	0 1 9 6 0 0 2	10/03	Nakayama et al			
2 0 0 3	0 1 9 6 1 4 7	10/03	Hirata et al			

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2003	8-19-05

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<i>S. N.</i>	2 0 0 2 4 9 3 0	2/04	Nakayama et al			
<i>S. N.</i>	2 0 0 6 8 6 1 0	4/04	Umberger et al			
<i>S. N.</i>	2 0 1 0 7 3 2 5	6/04	Mori			

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>S.N.</i>	2 0 0 1	0	0	4	6	1	1	8	11/01	Yamanashi et al			
	2 0 0 1	0	0	5	4	1	3	6	12/01	Ninomiya et al			
	2 0 0 1	0	0	5	6	5	2	7	12/01	Ninomiya et al			
	2 0 0 2	0	1	6	2	0	5	7	10/02	Talagala			
	2 0 0 3	0	0	4	1	2	0	1	2/03	Rauscher			
	2 0 0 3	0	1	7	2	1	5	0	9/03	Kennedy			
<i>S.N.</i>	2 0 0 4	0	1	1	7	5	3	4	6/04	Parry et al			

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<i>See N</i>	2 0 0 3	0	0	4	1	2	7	8	2/03	Lin			
	2 0 0 4	0	1	1	1	5	6	0	6/04	Takase et al			
	2 0 0 4	0	2	6	7	5	1	6	12/04	Jibbe et al			
<i>See N</i>	2 0 0 5	0	0	2	7	9	0	0	2/05	Petty			

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<i>SA</i>	2 0 0 3	0	2	3	1	4	2	0	12/03	Kano et al			
	2 0 0 4	0	0	8	8	4	8	2	5/04	Tanzer et al			
	2 0 0 4	0	1	6	9	9	9	6	9/04	Paul et al			
	2 0 0 1	0	0	1	9	5	0	9	9/01	Aho et al			
	2 0 0 3	0	0	4	6	4	6	0	3/03	Inoue et al			
	2 0 0 4	0	1	3	9	2	6	0	7/04	Steinmetz			
<i>SA</i>	2 0 0 4	0	1	4	8	3	2	9	7/04	Ogasawara et al			

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2 0 0 2	0 0 4 9 8 8 6	4/02	Furuya et al			
2 0 0 2	0 1 4 4 0 5 7	10/02	Li et al			
2 0 0 3	0 1 3 1 2 9 1	7/03	Morrison et al			
2 0 0 3	0 1 6 7 4 3 9	9/03	Talagala et al			
2 0 0 3	0 0 9 7 4 8 7	5/03	Rietze et al			
2 0 0 4	0 1 1 1 4 8 5	6/04	Mimatsu et al			
2 0 0 4	0 2 6 8 0 3 7	12/04	Buchanan, Jr. et al			

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2 0 0 3	0 2 1 2 8 5 9	11/03	Ellis			
2 0 0 4	0 1 4 8 4 6 0	7/04	Steinmetz			
2 0 0 4	0 1 4 8 4 6 1	7/04	Steinmetz			
2 0 0 4	0 2 3 6 9 0 8	11/04	Suzuki et al			
2 0 0 3	0 1 1 0 3 3 0	6/03	Fujie et al			
5	8 4 5 3 1 9	12/98	Yorimitsu			
6	4 4 9 7 0 9		Gates			

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A. KANO, et al

FILING DATE  
January 29, 2004

GROUP

2655

(Use several sheets if necessary)

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>S-N</i>	5 8 1 2 7 5 4	9/98	Lui et al			
<i>S-N</i>	5 8 2 2 7 8 2	10/98	Humlicek et al			
<i>S-N</i> 2 0 0 2	0 0 6 2 4 5 4	5/02	Fung			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
<i>S-N</i> 2 0 0 3	3 6 1 4 6	2/03	Japan		

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

EXAMINER	DATE CONSIDERED
<i>S-N</i>	8 7 8 - 0 5

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(Form PTO-1449 [6-4])

<b>FORM PTO-1449</b> U.S. Department of Commerce (Rev. 4/92) Patent and Trademark Office  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)	<b>ATTY. DOCKET NO.</b> 500.43451CX1	<b>SERIAL NO.</b> 10/766,015
	<b>APPLICANT</b> A. KANO, et al	
	<b>FILING DATE</b> January 29, 2004	<b>GROUP</b> 26.55

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Sch	20030189811	10/03	Peeke et al			
Sch	20030135577	7/03	Weber et al			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
						YES	NO
Sch	10301720	11/98	Japan			Eng.Trans	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Sch	Serial Attached SCSI and Serial ATA Compatibility, Intel, 2002, pp. 1-8.
Sch	ESG Product Brief EMC, March 2003, CLARiiON WITH ATA, pp. 1-2.
Sch	EMC CLARiiON Backup Storage Solutions Back-up-to-Disk Guide with LEGATO Networker Diskbackup Option (DBO), Engineering White Paper, 4/8/2003, pp. 1-28.

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Sch-NP

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8-19-05

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	500.43451CX1	10/766,015
	APPLICANT <b>A. KANO, et al</b>	
	FILING DATE January 29, 2004	GROUP 2655

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>A.C.V.</i>	2 0 0 1 4 9 5 6	8/01	Nagata et al			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
						YES	NO
<i>A.C.V.</i>	2 1 6 7 0 4 0	6/01	Japan			XX	
<i>A.C.V.</i>	2 3 3 7 8 6 8	12/01	Japan			XX	
<i>A.C.V.</i>	0 9 3 3 0 1 8 4	12/97	Japan			XX	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>A.C.V.</i>	EMC CLARiiON Backup Storage Solutions Backup-to-disk Guide with Computer Associates' BrightStor ARCserve Backup, Engineering White Paper, 4/16/2003, pp. 1-28.
<i>A.C.V.</i>	EMC CLARiiON Backup Storage Solutions Backup-to-Disk: An Overview, Engineering White Paper, 3/3/2003, pp. 1-10.
<i>A.C.V.</i>	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with CommVault Galaxy, Engineering White Paper, 3/3/2003, pp. 1-26.
<i>A.C.V.</i>	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with Computer Associates' BrightStor Enterprise Backup, Engineering White Paper, 4/16/2003, pp. 1-23.

EXAMINER

*A.C.V.*

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A. KANO, et al

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2085

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>det</i>	6 2 4 0 4 8 6	05/01	Ofek et al			
	6 1 7 3 3 6 0	01/01	Beardsley et al			
	6 8 0 1 9 9 2	10/04	Gajjar et al			
2 0 0 3	0 1 1 5 2 0 4	6/03	Greenblatt et al			
2 0 0 3	0 0 6 1 4 9 1	3/03	Jaskiewicz et al			
2 0 0 3	0 1 3 5 6 0 9	7/03	Carlson et al			
2 0 0 4	0 1 6 2 9 4 0	8/04	Yagisawa et al			

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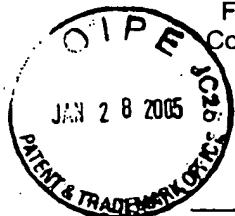
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
U.S.V.	2004	0	2	4	3	6	9	9	12/04	Koclances et al			
	2004	0	1	7	7	2	2	8	9/04	Leonhardt et al			
	2004	0	1	5	8	6	7	6	8/04	Kasmirsky et al			
A.S.V.	2004	0	1	5	3	6	1	4	8/04	Bitner et al			

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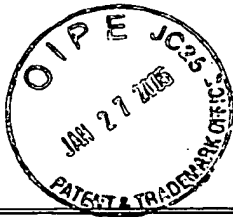
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
													YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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<i>S.N.</i>	5 8 1 2 7 5 4	09/98	Lui et al			
	5 8 2 2 7 8 2	10/98	Humlícek et al			
	6 4 4 9 7 0 9	9/02	Gates			
2 0 0 2	0 0 6 2 3 8 7	5/02	Yatziv			
2 0 0 2	0 0 6 2 4 5 4	5/02	Fung			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
1 0 0 1 3 4 5	5/00	European			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
W.N.	2 0 0 3 0 1 1 0 3 3 0	6/03	Fujie et al	—	—	

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
W.N. 2 0 0 3 3 6 1 4 6	2/03	Japan	—	—	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


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Commerce (Rev. 4/92) Patent and Trademark

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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>SM</i>	6 1 5 4 8 5 0	11/00	Idleman			
	6 4 0 0 7 3 0	6/02	Latif			
<i>2002</i>	0 1 4 4 0 4 8	10/02	Bolt			
<i>2003</i>	0 1 4 9 8 4 0	8/03	Bolt			
<i>2003</i>	0 2 2 1 0 6 1	11/03	El-Batal			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


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<i>S.M.</i>	5 8 3 2 2 0 4	11/98	Apperley et al			
<i>S.M.</i>	0 1 3 5 5 7 7	7/03	Weber et al			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>S.M.</i>	IBM Technical Disclosure Bulletin Vol. 38, No. 7, July 1995 (New York), "Foreground/Background Checking of Parity in a Redundant Array of Independent Disks-5 Storage Subsystem", pp. 455-458.
<i>S.M.</i>	Laboratory Automation and Information Management 32, 1996, (Elsevier Science B.V), R E Dessy, "Computer Connections", pp. 53-62.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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**Complete if Known**

Application Number	107-766013
Filing Date	January 29, 2004
First Named Inventor	Azuma Kano
Art Unit	2635
Examiner Name	
Attorney Docket Number	500.43451X00

Sheet	1	of	1
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## U. S. PATENT DOCUMENTS

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**FOREIGN PATENT DOCUMENTS**

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**Examiner  
Signature**

Date  
Considered

5-9-05

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